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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/687,888 | 10/17/2003 | Daniel Keith Amonett | KPF-30CD1 | 9793 |

26875 7590 04/13/2007
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CINCINNATI, OH 45202

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| EXAMINER |
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TAMAI, KARL I

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| ART UNIT | PAPER NUMBER |
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2834

| SHORTENED STATUTORY PERIOD OF RESPONSE | MAIL DATE | DELIVERY MODE |
|--|------------|---------------|
| 3 MONTHS | 04/13/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/687,888

Applicant(s)

AMONETT ET AL.

Examiner

Tamai I.E. Karl

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 20 January 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1, 2, 9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muller et al. (Muller)(4426158) and Schwartz (US 5210722). Muller teaches a timing motor and gear train having a stator plate 2 with upper and lower sides and a rotor 35, and having gear trains above and below the stator plate 2 with the shaft 44 engaging the gear 46 through the stator plate. The rotor mounted in an orifice which has a circumference and is bounded by a plurality magnetic poles. Muller teaches bus bars 308-314 connected to a resonator/timer. Muller teaches an alternative

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embodiment without shaft 18 (col. 5, lines 1-15) and gear wheel 20, such that there is only a single connection through the stator plate. Muller suggests at shaft and gears are connected during assembly because the gears are larger than the through hole 42b.

Muller teaches three apertures in the first embodiment and requires only the use of two apertures in the second, because the third aperture merely supports the minute and hour output pipes. Muller does not teach only two apertures in the stator plate.

Schwartz teaches only two apertures in the stator plate (9c, 9d), with the output for the minutes and hour (16,18) supported by the frame 14(col. 3, line 18-25). It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of Muller with the stator plate having only 2 apertures to support the output wheels on a central stub of the housing and position the stator on the housing, as taught by Schwartz.

4. Claims 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muller et al. (Muller)(4426158) and Schwartz (US 5210722), in further view of Horbach (US 3215964). Muller and Schwartz teach every aspect of the invention except a buss bar in the timer, a coil wound on a rectangular bobbin with square wire terminals. Muller teaches a timing motor with buss bars 308-314. Horbach teaches a bobbin with square terminals for the magnetic wire on the bobbin to provide inexpensive and fast assembly of the electric coil with other components. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of Muller and

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Schwartz with the square wire terminals of Horbach to provide inexpensive and fast assembly of devices required electric coils on bobbins.

5. Claims 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muller et al. (Muller)(4426158) and Schwartz (US 5210722, in further view of Plancon et al. (Plancon)(US 4888507). Muller and Schwartz teach every aspect of the invention except a steel post perpendicular to the stator plate. Plancon teaches a steel post in the rotor perpendicular to the stator to provide a single machined rotor, pinion 6, and bearings. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of Muller and Schwartz with the steel post of Plancon to provide simplified production and strong steel bearings.

Response to Arguments

6. Applicant's arguments filed 8/15/2006 have been fully considered but they are moot in view of the new ground of rejection.

Conclusion

7. Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (571) 272 - 2036. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg, can be reached at (571) 272 - 2044. The facsimile number for the Group is (571) 273 - 8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl I Tamai
PRIMARY PATENT EXAMINER
April 9, 2007



KARL TAMAI
PRIMARY EXAMINER